

## **Multi-Carrier Reception for Ultra-Wideband (UWB) Systems**

### **ABSTRACT OF THE DISCLOSURE**

System and method for receiving transmissions in a wireless communications system. A preferred embodiment comprises a receiver (such as receiver 400) that can despread and then demodulate a symbol from a transmitter that first spread and then modulated the symbol. By reversing the processing order, the demodulation can be performed at a lower data rate and therefore reducing computational and power requirements.